



CITY OF KIRKLAND
Department of Public Works
123 Fifth Avenue, Kirkland, WA 98033 425.587.3800
www.kirklandwa.gov

MEMORANDUM

To: Kurt Triplett, City Manager

From: Dave Snider, P.E., Capital Projects Manager
Pam Bissonnette, Interim Public Works Director

Date: May 8, 2014

Subject: 2013 Crosswalk Initiative – Accept Work

RECOMMENDATION:

It is recommended that City Council accepts work on the two Job Order Contracting (JOC) Work Orders for the 2013 Crosswalk Initiative Project, as completed by Forma Construction of Seattle, WA, and establishes the statutory lien period.

BACKGROUND DISCUSSION:

The 2013 Crosswalk Initiative Project resulted in pedestrian amenity upgrades at fifteen (15) crosswalks throughout the City (Attachment A). The completed Project resulted in the replacement of non-working in-pavement flashing light systems with new Rectangular Flashing Beacon (RFB) units.

At their April 4, 2013 meeting, City Council authorized the City Manager to enter into an Interlocal Agreement (ILA) with the City of Bellevue in order to utilize a portion of Bellevue's JOC contract as an alternative procurement method for public works project delivery. City Council authorized the use of JOC Work Orders with a not-to-exceed total cost of \$600,000 of Street Levy Funds for installation of the new RFBs throughout the City. (A transfer of \$10,000 of the \$600,000, was subsequently approved by City Council to be used on the NE 112th Street Sidewalk Project (CNM-053) as a grant fund match reducing the JOC RFB Project budget to \$590,000 – Attachment B.)



NE 116th St and 113th PI NE

In late May 2013, the City began working with Forma Construction, Bellevue's current JOC contractor and The Gordian Group, Bellevue's consultant JOC contract administrator, to scope

and price out thirteen (13) crosswalk locations. By July 2013, the City issued the first of two Work Orders and efforts began to construct RFBs at the first six crosswalk locations -- all six of the first units were constructed as hard-wired electrical units. The construction of the first Work Order was substantially complete in November, 2013 at a construction cost of \$274,116. In October, 2013 the City issued a second Work Order to Forma Construction to construct RFBs at up to nine more crosswalk locations. The second Work Order was for seven solar RFB units and two wired units, and that work was substantially complete in February, 2014 at a cost of \$235,996. While the costs for the solar units were typically higher for the parts, they proved to be substantially less costly for their physical installations.

The amount paid to the contractor for the two construction Work Orders for all 15 RFBs was \$510,112 noting that, as originally scoped, the 2013 Crosswalk Initiative was to improve 13 locations; however, the lesser costs for the solar installations allowed for the replacement of two additional non operational in-pavement lighted crosswalk locations bringing the final total number of replacements to 15 for the Project.

The total cost to the 2013 Crosswalk Initiative Project, including in-house engineering, inspection, and consultant fees to The Gordian Group is approximately \$565,400. With the total Project budget of \$590,000, all remaining funds will be returned to the Pedestrian Safety Levy Reserve (as the original source) at final Project close-out (Attachment B).

Kirkland's introductory JOC program, through the Bellevue ILA, provided a new project delivery method that has produced favorable results for the 2013 Crosswalk Initiative Project. Overall, the 15 RFBs were specified and constructed in a shorter time and at comparatively less cost. Staff compared the installation of the RFBs using the JOC process to the traditional design-bid-build (low bid) process with results shown in Table 1 below:

Table 1: Comparison of JOC Process and Design-bid-build for RFB Installation

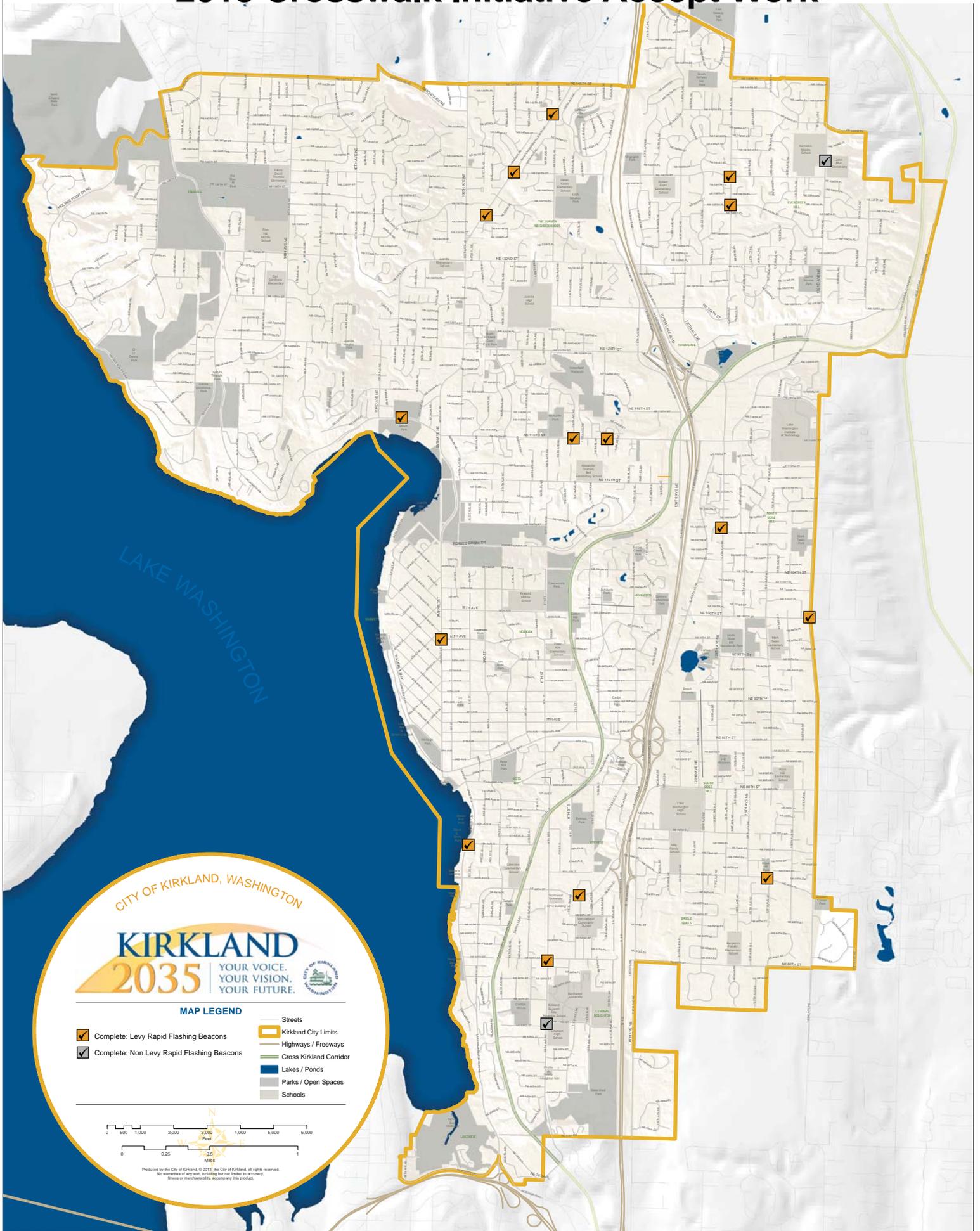
Item	JOC	Low Bid	Difference
Average construction cost hard wired system	45,686	56,679	(10,993)
Average soft cost (Design, Inspect, CM)	3,688	13,301	(9,613)
Total	49,374	69,980	(20,606)

On average, there was a significant savings in costs and in time to complete each RFB through JOC. As shown above, there was an overall average of over \$20,000 per unit to complete a hard-wired electrical RFB system through JOC, when compared to the more traditional contracting method. Additionally, staff found the JOC process saved nearly two months of time for overall project delivery over that of a typical design-bid-build process.

As approved by City Council at their regular meeting of March 4, 2014, staff is currently working on implementing a Kirkland JOC Program for CIP and other city projects, including maintenance, facilities, and emergency projects. Staff anticipates Kirkland's JOC Program will be ready for utilization in summer, 2014, once all JOC Program paperwork requirements are met and a JOC contractor solicitation and contract are completed.

Attachment A: Vicinity Map
Attachment B: PBR

2013 Crosswalk Initiative Accept Work



2013 Crosswalk Initiative
(NM-1306-200)

Attachment B

Project Budget Report

